



SPAN FORGING PVT. LTD.

Manufacturers of : Steel Forging, CNC Turned Components & Gears

Works : Village - Tatarpur (Near Prithla) Teh. Palwal, Distt. Faridabad, Cell : 9810010535

Ref. No.....

Date.....

TEST REPORT

Issued to: M/sNov Sara India Pvt.Ltd.
7/1,Pritam Road,Unit-II
Dehradun-248001

Report No.

507

D..O.T.

21-06-2011

D..O.R

20-06-2011

Sample Description

T.S.

Sample No.

6268

Heat No.

R-575

RESULTS


Chemical Analysis
By Spectrometer

Sample ID

J.O No.

<u>Element</u>	<u>%</u>
Carbon	0.0592
Silicon	0.506
Sulphur	0.0144
Phosphorus	0.0346
Manganese	1.46
Nickel	10.08
Chromium	16.3
Molybdenum	2.08
Vanadium	0.0608
Copper	0.369
Tungsten	0
Cobalt	0.181
Aluminium	0.0097
Titanium	0.0177
Iron	68.70

Checked By
Arun Mishra


Authorized Signatory
(Q.M / T.M)

1. The result listed refer only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
2. Total Liability of our Laboratory is limited to the invoiced amount. No liability will be accepted after the sample is taken back.
3. The report can not be used as an evidence in a court of law.
4. Samples will be destroyed after 15 days.
5. Any Complaints about this report should be communicated within 7 days of issue of this report.
6. This report shall not be reproduced except in full, without the written permission of the Laboratory.
7. *Not Covered under NABL Scope.



PARVATI LTD.

Regd Office & Works : 27, Rajasthani Udyog Nagar, G. T. Karnal Road,
NEW DELHI - 33, Phone : 91 - 11 - 27691481, 1282, 1283 Fax : 91 - 11 - 27691909

TEST CERTIFICATE

Customer Name & Destination : M/S NOV SARA INDIA(P)LTD.		T.C.NO.: P-853	Date : 12.03.11	ORDER NO : VERBAL		
Material Specification	Manufacturing Route	Supply Condition	Size	PCS	Colour Code	Weight (Mt)
AISI-304 AISI-316	INDUCTION FURNACE	AS ROLLED	40 MM 56 MM 70MM	107 53 23	PINK PINK BLUE	5530 5390 3950

CHEMICAL ANALYSIS IN PERCENTAGE

ELEMENTS	C	Mn	Si	S	P	Cr	Ni	Mo	N	COLOUR	CODE	Size	Pcs.
Specification	Min.												
	Max.												
Heat No.	Grade												
R-573	AISI-304	.074	1.49	.51	.017	.030	18.12	8.08		.0642		40 MM	107
R-574	AISI-304	.072	1.53	.53	.013	.034	18.09	8.11		.0704		56 MM	53
R-575	AISI-316	.070	1.47	.52	.014	.034	16.71	10.06	2.03	.0682		70 MM	23

ULTRASONIC TESTING
ACC. STD : 6mm FBH

REMARKS : **NA**

MECHANICAL PROPERTIES : TEST STD ASTM A370

SPEC	Test Condition	UTS (N/MM ²)	YS (N/MM ²)	% EL	% RA	Hardness (BHN)	
						Min.	Max.
RESULT	-	-	-	-	-		

METALLURGICAL TEST RESULT

Grain Size
E 112

IMPACT TESTING :

Test Temp :

Test Std :

INCLUSION RATING ASTM E - 45					Sr. No	Impact Energy (J)	Average
A	B	C	D		1	-	
Thin	-	-	-	-	2	-	
Thick	-	-	-	-	3	-	

JOMINY HARDENABILITY : ASTM - 3848

MACROSTREAK FLAW TEST (IS - 4075)

DIST mm/Inch	J	J	J	J	J	J	Marco Test (ASTM E - 381)	1 st Step	2 nd Step	3 rd Step
ACTUAL HRC										

Visual Inspection :

remarks

- 1 Impact testing as per dinen 10015 - 1
- 2 Ultrasonic testing as per astm a 388
- 3 Material is free from residual radioactive elements.
- 4 Lead not added during manufacturin.
- 5 Steel has been manufactured in mercury free environment.

For Parvati Ltd.

WE CONFIRM THAT THE TEST
CERTIFICATE FINDINGS ARE
CORRECT & RESULTS ARE
AS PER STANDARD /
CUSTOMER'S REQUIREMENTS

Chemist

[Signature]



Authorized Signatory (Q.C.)